

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/753, 008 A
Source: IFL016
Date Processed by STIC: 12/14/2005

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/753,008A

DATE: 12/14/2005
 TIME: 12:15:52

Input Set : A:\96700-658.txt
 Output Set: N:\CRF4\12142005\I753008A.raw

3 <110> APPLICANT: Somlo, Stefan
 4 Mochizuki, Toshio
 6 <120> TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE PKD2 GENE AND USES
 THEREOF
 8 <130> FILE REFERENCE: 96700/658
 10 <140> CURRENT APPLICATION NUMBER: 09/753,008A
 11 <141> CURRENT FILING DATE: 2001-01-02
 13 <150> PRIOR APPLICATION NUMBER: 08/651,999
 14 <151> PRIOR FILING DATE: 1996-05-23
 16 <150> PRIOR APPLICATION NUMBER: 09/385,752
 17 <151> PRIOR FILING DATE: 1999-08-30
 19 <160> NUMBER OF SEQ ID NOS: 15
 21 <170> SOFTWARE: PatentIn version 3.3
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 866
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Homo sapiens
 29 <220> FEATURE:
 30 <221> NAME/KEY: misc_feature
 31 <222> LOCATION: (384)..(384)
 32 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 34 <220> FEATURE:
 35 <221> NAME/KEY: misc_feature
 36 <222> LOCATION: (395)..(395)
 37 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 39 <220> FEATURE:
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (426)..(426)
 42 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 44 <220> FEATURE:
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 46 <222> LOCATION: (432)..(432)
 47 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 49 <220> FEATURE:
 50 <221> NAME/KEY: misc_feature
 51 <222> LOCATION: (547)..(547)
 52 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 54 <220> FEATURE:
 55 <221> NAME/KEY: misc_feature
 56 <222> LOCATION: (586)..(588)
 57 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 59 <220> FEATURE:
 60 <221> NAME/KEY: misc_feature
 61 <222> LOCATION: (849)..(849)

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62 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 64 <400> SEQUENCE: 1
 66 Met Val Asn Ser Ser Arg Val Gln Pro Gln Gln Pro Gly Asp Ala Lys
 67 1 5 10 15
 70 Arg Pro Pro Ala Pro Arg Ala Pro Asp Pro Gly Arg Leu Met Ala Gly
 71 20 25 30
 74 Cys Ala Ala Val Gly Ala Ser Leu Ala Ala Pro Gly Gly Leu Cys Glu
 75 35 40 45
 78 Gln Arg Gly Leu Glu Ile Glu Met Gln Arg Ile Arg Gln Ala Ala Ala
 79 50 55 60
 82 Arg Asp Pro Pro Ala Gly Ala Ala Ser Pro Ser Pro Pro Leu Ser
 83 65 70 75 80
 86 Ser Cys Ser Arg Gln Ala Trp Ser Arg Asp Asn Pro Gly Glu Glu
 87 85 90 95
 90 Ala Glu Glu Glu Glu Glu Val Glu Gly Glu Glu Gly Met Val
 91 100 105 110
 94 Val Glu Met Asp Val Glu Trp Arg Pro Gly Ser Arg Arg Ser Ala Ala
 95 115 120 125
 98 Ser Ser Ala Val Ser Ser Val Gly Ala Arg Ser Arg Gly Leu Gly Gly
 99 130 135 140
 102 Tyr His Gly Ala Gly His Pro Ser Gly Arg Arg Arg Arg Arg Glu Asp
 103 145 150 155 160
 106 Gln Gly Pro Pro Cys Pro Ser Pro Val Gly Gly Gly Asp Pro Leu His
 107 165 170 175
 110 Arg His Leu Pro Leu Glu Gly Gln Pro Pro Arg Val Ala Trp Ala Glu
 111 180 185 190
 114 Arg Leu Val Arg Gly Leu Arg Gly Leu Trp Gly Thr Arg Leu Met Glu
 115 195 200 205
 118 Glu Ser Ser Thr Asn Arg Glu Lys Tyr Leu Lys Ser Val Leu Arg Glu
 119 210 215 220
 122 Leu Val Thr Tyr Leu Leu Phe Leu Ile Val Leu Cys Ile Leu Thr Tyr
 123 225 230 235 240
 126 Gly Thr Glu Ala Asp Asn Arg Ser Phe Ile Phe Tyr Glu Asn Leu Leu
 127 245 250 255
 130 Leu Gly Val Pro Arg Ile Arg Gln Leu Arg Val Arg Asn Gly Ser Cys
 131 260 265 270
 134 Ser Ile Pro Gln Asp Leu Arg Asp Glu Ile Lys Glu Cys Tyr Asp Val
 135 275 280 285
 138 Tyr Glu Thr Ala Ala Gln Val Ala Ser Leu Lys Lys Asn Val Trp Leu
 139 290 295 300
 142 Asp Arg Gly Thr Arg Ala Thr Phe Ile Asp Phe Ser Val Tyr Asn Ala
 143 305 310 315 320
 146 Asn Ile Asn Leu Phe Cys Val Val Arg Leu Leu Val Glu Phe Pro Ala
 147 325 330 335
 150 Thr Gly Gly Val Ile Pro Ser Trp Gln Phe Gln Pro Leu Lys Leu Ile
 151 340 345 350
 154 Arg Tyr Val Thr Thr Phe Asp Phe Phe Leu Ala Ala Cys Glu Ile Ile
 155 355 360 365
 W--> 158 Phe Cys Phe Phe Ile Phe Tyr Val Val Glu Glu Ile Leu Glu Xaa

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159	370	375	380
W--> 162 Ile Arg Ile His Lys Leu His Tyr Phe Arg Xaa Ser Phe Trp Asn Cys			
163 385		390	395
166 Leu Asp Val Val Ile Val Val Leu Ser Val Val Ala Ile Gly Ile Asn			400
167	405	410	415
W--> 170 Ile Tyr Arg Thr Ser Asn Val Glu Val Xaa Leu Leu Gln Phe Leu Xaa			
171	420	425	430
174 Glu Asp Gln Asn Thr Phe Pro Asn Phe Glu His Leu Ala Tyr Trp Gln			
175	435	440	445
178 Ile Gln Phe Asn Asn Ile Ala Ala Val Thr Val Phe Phe Val Trp Ile			
179	450	455	460
182 Lys Leu Phe Lys Phe Ile Asn Phe Asn Arg Thr Met Ser Gln Leu Ser			
183 465	470	475	480
186 Thr Thr Met Ser Arg Cys Ala Lys Asp Leu Phe Gly Phe Ala Ile Met			
187	485	490	495
190 Phe Phe Ile Ile Phe Leu Ala Tyr Ala Gln Leu Ala Tyr Leu Val Phe			
191	500	505	510
194 Gly Thr Gln Val Asp Asp Phe Ser Thr Phe Gln Glu Cys Ile Phe Thr			
195	515	520	525
198 Gln Phe Arg Ile Ile Leu Gly Asp Ile Asn Phe Ala Glu Ile Glu Glu			
199	530	535	540
W--> 202 Ala Asn Xaa Arg Val Leu Gly Pro Ile Tyr Phe Thr Thr Phe Val Phe			
203 545	550	555	560
206 Phe Met Phe Phe Ile Leu Leu Asn Met Phe Leu Ala Ile Ile Asn Asp			
207	565	570	575
W--> 210 Thr Tyr Ser Glu Val Lys Ser Asp Leu Xaa Xaa Xaa Ala Gln Gln Lys			
211	580	585	590
214 Ala Glu Met Glu Leu Ser Asp Leu Ile Arg Lys Gly Tyr His Lys Ala			
215	595	600	605
218 Leu Val Lys Leu Lys Leu Lys Lys Asn Thr Val Asp Asp Ile Ser Glu			
219	610	615	620
222 Ser Leu Arg Gln Gly Gly Lys Leu Asn Phe Asp Glu Leu Arg Gln			
223 625	630	635	640
226 Asp Leu Lys Gly Lys Gly His Thr Asp Ala Glu Ile Glu Ala Ile Phe			
227	645	650	655
230 Thr Lys Tyr Asp Gln Asp Gly Asp Gln Glu Leu Thr Glu His Glu His			
231	660	665	670
234 Gln Gln Met Arg Asp Asp Leu Glu Lys Glu Arg Glu Asp Leu Asp Leu			
235	675	680	685
238 Asp His Ser Ser Leu Pro Arg Pro Met Ser Ser Arg Ser Phe Pro Arg			
239	690	695	700
242 Ser Leu Asp Asp Ser Glu Glu Asp Asp Glu Asp Ser Gly His Ser			
243 705	710	715	720
246 Ser Arg Arg Arg Gly Ser Ile Ser Ser Gly Val Ser Tyr Glu Glu Phe			
247	725	730	735
250 Gln Val Leu Val Arg Arg Val Asp Arg Met Glu His Ser Ile Gly Ser			
251	740	745	750
254 Ile Val Ser Lys Ile Asp Ala Val Ile Val Lys Leu Glu Ile Met Glu			
255	755	760	765

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258 Arg Ala Lys Leu Lys Arg Arg Glu Val Leu Gly Arg Leu Leu Asp Gly
259 770 775 780
262 Val Ala Glu Asp Glu Arg Leu Gly Arg Asp Ser Glu Ile His Arg Glu
263 785 790 795 800
266 Gln Met Glu Arg Leu Val Arg Glu Leu Glu Arg Trp Glu Ser Asp
267 805 810 815
270 Asp Ala Ala Ser Gln Ile Ser His Gly Leu Gly Thr Pro Val Gly Leu
271 820 825 830
274 Asn Gly Gln Pro Arg Pro Arg Ser Ser Arg Pro Ser Ser Ser Gln Ser
275 835 840 845
W--> 278 Xaa Thr Glu Gly Met Glu Gly Ala Gly Gly Asn Gly Ser Ser Asn Val
279 850 855 860
282 His Val
283 865
286 <210> SEQ ID NO: 2
287 <211> LENGTH: 523
288 <212> TYPE: PRT
289 <213> ORGANISM: Homo sapiens
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: (46)..(46)
295 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (51)..(55)
300 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
302 <220> FEATURE:
303 <221> NAME/KEY: misc_feature
304 <222> LOCATION: (89)..(93)
305 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
307 <220> FEATURE:
308 <221> NAME/KEY: misc_feature
309 <222> LOCATION: (101)..(111)
310 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
312 <220> FEATURE:
313 <221> NAME/KEY: misc_feature
314 <222> LOCATION: (166)..(167)
315 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
317 <220> FEATURE:
318 <221> NAME/KEY: misc_feature
319 <222> LOCATION: (293)..(293)
320 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
322 <220> FEATURE:
323 <221> NAME/KEY: misc_feature
324 <222> LOCATION: (334)..(335)
325 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
327 <220> FEATURE:
328 <221> NAME/KEY: misc_feature
329 <222> LOCATION: (437)..(440)

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330 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 332 <220> FEATURE:

333 <221> NAME/KEY: misc_feature

334 <222> LOCATION: (511)..(517)

335 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

337 <400> SEQUENCE: 2

339 Phe Leu Ala Lys Glu Glu Ala Arg Lys Val Lys Arg Leu His Gly Met

340 1 5 10 15

343 Leu Arg Ser Leu Leu Val Tyr Met Leu Phe Leu Leu Val Thr Leu Leu

344 20 25 30

W--> 347 Ala Ser Tyr Gly Asp Ala Ser Cys His Gly His Ala Tyr Xaa Arg Leu
 348 35 40 45

W--> 351 Gln Ser Xaa Xaa Xaa Xaa Ala Ile Lys Gln Glu Leu His Ser Arg
 352 50 55 60

355 Ala Phe Leu Ala Ile Thr Arg Ser Glu Glu Leu Trp Pro Trp Met Ala
 356 65 70 75 80

W--> 359 His Val Leu Leu Pro Tyr Val His Xaa Xaa Xaa Xaa Xaa Gly Asn Gln
 360 85 90 95

W--> 363 Ser Ser Pro Glu Xaa Leu
 364 100 105 110

367 Gly Pro Pro Arg Leu Arg Gln Val Arg Leu Gln Glu Ala Leu Tyr Pro
 368 115 120 125

371 Asp Pro Pro Gly Pro Arg Val His Thr Cys Ser Ala Ala Gly Gly Phe
 372 130 135 140

375 Ser Thr Ser Asp Tyr Asp Val Gly Trp Glu Ser Pro His Asn Gly Ser
 376 145 150 155 160

W--> 379 Gly Thr Trp Ala Thr Xaa Xaa Ser Ala Pro Asp Leu Leu Gly Ala Trp
 380 165 170 175

383 Ser Trp Gly Ser Cys Ala Val Tyr Asp Ser Gly Gly Tyr Val Gln Glu
 384 180 185 190

387 Leu Gly Leu Ser Leu Glu Glu Ser Arg Asp Arg Leu Arg Phe Leu Gln
 388 195 200 205

391 Leu His Asn Trp Leu Asp Asn Arg Ser Arg Ala Val Phe Leu Glu Leu
 392 210 215 220

395 Thr Arg Tyr Ser Pro Ala Val Gly Leu His Ala Ala Val Thr Leu Arg
 396 225 230 235 240

399 Leu Glu Phe Pro Ala Ala Gly Arg Ala Leu Ala Ala Leu Ser Val Arg
 400 245 250 255

403 Pro Phe Ala Leu Arg Arg Leu Ser Ala Gly Leu Ser Leu Pro Leu Leu
 404 260 265 270

407 Thr Ser Val Cys Leu Leu Leu Phe Ala Val His Phe Ala Val Ala Glu
 408 275 280 285

W--> 411 Ala Arg Thr Trp Xaa His Arg Glu Gly Arg Trp Arg Val Leu Arg Leu
 412 290 295 300

415 Gly Ala Trp Ala Arg Trp Leu Leu Val Ala Leu Thr Ala Ala Thr Ala

416 305 310 315 320

W--> 419 Leu Val Arg Leu Ala Gln Leu Gly Ala Ala Asp Arg Gln Xaa Xaa Trp
 420 325 330 335

423 Thr Arg Phe Val Arg Gly Arg Pro Arg Arg Phe Thr Ser Phe Asp Gln

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 384,395,426,432,541,586,587,588,849
Seq#:2; Xaa Pos. 46,51,52,53,54,55,89,90,91,92,93,101,102,103,104,105,106
Seq#:2; Xaa Pos. 107,108,109,110,111,166,167,293,334,335,431,438,439,440
Seq#:2; Xaa Pos. 511,512,513,514,515,516,517
Seq#:3; Xaa Pos. 62,363,364,365,366,367
Seq#:4; Xaa Pos. 24,55,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,78,79
Seq#:4; Xaa Pos. 80,81,82,83,84,85,86,87,88,163,173,211,212,213,214,215,216
Seq#:4; Xaa Pos. 217,218,219,220,221,222,223,224,225,226,227,228,229,230
Seq#:4; Xaa Pos. 231,232,233,234,235,236,237,238,239,240,241,242,243,244
Seq#:4; Xaa Pos. 245,246,247,248,249,250,251,252,253,254,255,256,257,258
Seq#:4; Xaa Pos. 259,260,261,262,263,264,265,266,267,276
Seq#:6; N Pos. 3995,3996,3997,4906,4923,4932,4995,5028,5056
Seq#:13; N Pos. 11
Seq#:14; N Pos. 4
Seq#:15; N Pos. 10

VERIFICATION SUMMARY

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Input Set : A:\96700-658.txt

Output Set: N:\CRF4\12142005\I753008A.raw

L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:368
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:384
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:416
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:544
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:576
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:848
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:80
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:160
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:288
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:320
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:432
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:496
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:512
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:352
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:80
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:160
L:689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:208
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:224
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:240
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:256
L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:272
L:918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:3960
L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:4860
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:4920
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:4980
L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:5040
L:1265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:1280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0